

\*\*\*\*\* Welcome to STN International \*\*\*\*\*

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NEWS 2 "Ask CAS" for self-help around the clock  
NEWS 3 DEC 21 IPC search and display fields enhanced in CA/CAPLUS with the  
IPC reform  
NEWS 4 DEC 23 New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/  
USPAT2  
NEWS 5 JAN 13 IPC 8 searching in IFIPAT, IFIUDB, and IFICDB  
NEWS 6 JAN 13 New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to  
INPADOC  
NEWS 7 JAN 17 Pre-1988 INPI data added to MARPAT  
NEWS 8 JAN 17 IPC 8 in the WPI family of databases including WPIFV  
NEWS 9 JAN 30 Saved answer limit increased  
NEWS 10 JAN 31 Monthly current-awareness alert (SDI) frequency  
added to TULSA  
NEWS 11 FEB 21 STN AnaVist, Version 1.1, lets you share your STN AnaVist  
visualization results  
NEWS 12 FEB 22 Status of current WO (PCT) information on STN  
NEWS 13 FEB 22 The IPC thesaurus added to additional patent databases on STN  
NEWS 14 FEB 22 Updates in EPFULL; IPC 8 enhancements added  
NEWS 15 FEB 27 New STN AnaVist pricing effective March 1, 2006  
NEWS 16 FEB 28 MEDLINE/LMEDLINE reload improves functionality  
NEWS 17 FEB 28 TOXCENTER reloaded with enhancements  
NEWS 18 FEB 28 REGISTRY/ZREGISTRY enhanced with more experimental spectral  
property data  
NEWS 19 MAR 01 INSPEC reloaded and enhanced  
NEWS 20 MAR 03 Updates in PATDPA; addition of IPC 8 data without attributes  
NEWS 21 MAR 08 X.25 communication option no longer available after June 2006  
NEWS 22 MAR 22 EMBASE is now updated on a daily basis  
NEWS 23 APR 03 New IPC 8 fields and IPC thesaurus added to PATDPAFULL  
NEWS 24 APR 03 Bibliographic data updates resume; new IPC 8 fields and IPC  
thesaurus added in PCTFULL

NEWS EXPRESS FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a,  
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.  
V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT  
<http://download.cas.org/express/v8.0-Discover/>

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\*\*\*\*\* STN Columbus \*\*\*\*\*

FILE 'HOME' ENTERED AT 00:43:08 ON 04 APR 2006

=> file medline

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'MEDLINE' ENTERED AT 00:43:20 ON 04 APR 2006

FILE LAST UPDATED: 1 APR 2006 (20060401/UP). FILE COVERS 1950 TO DATE.

On December 11, 2005, the 2006 MeSH terms were loaded.

The MEDLINE reload for 2006 is now (26 Feb.) available. For details on the 2006 reload, enter HELP RLOAD at an arrow prompt (=>).

See also:

<http://www.nlm.nih.gov/mesh/>  
[http://www.nlm.nih.gov/pubs/techbull/nd04/nd04\\_mesh.html](http://www.nlm.nih.gov/pubs/techbull/nd04/nd04_mesh.html)  
[http://www.nlm.nih.gov/pubs/techbull/nd05/nd05\\_med\\_data\\_changes.html](http://www.nlm.nih.gov/pubs/techbull/nd05/nd05_med_data_changes.html)  
[http://www.nlm.nih.gov/pubs/techbull/nd05/nd05\\_2006\\_MeSH.html](http://www.nlm.nih.gov/pubs/techbull/nd05/nd05_2006_MeSH.html)

OLDMEDLINE is covered back to 1950. -

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2006 vocabulary.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s gossypolone

L1 19 GOSSYPOLONE

=> d 1-19

L1 ANSWER 1 OF 19 MEDLINE on STN

Full Text	Citing References
--------------	----------------------

AN 2005282578 MEDLINE

DN PubMed ID: 15878283

TI Synthesis of gossypol atropisomers and derivatives and evaluation of their anti-proliferative and anti-oxidant activity.

AU Dodou Kalliopi; Anderson Rosaleen J; Lough W John; Small David A P; Shelley Michael D; Groundwater Paul W

CS Sunderland Pharmacy School, University of Sunderland, Wharncliffe Street, Sunderland SR1 3SD, UK.

SO Bioorganic & medicinal chemistry, (2005 Jul 1) Vol. 13, No. 13, pp. 4228-37.

Journal code: 9413298. ISSN: 0968-0896.

CY England: United Kingdom

DT (EVALUATION STUDIES)

Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 200509

ED Entered STN: 20050602

Last Updated on STN: 20050915

Entered Medline: 20050914

L1 ANSWER 2 OF 19 MEDLINE on STN

Full Text	Citing References
--------------	----------------------

AN 2004334672 MEDLINE

DN PubMed ID: 15236842

TI Cytotoxicity of enantiomers of gossypol Schiff's bases and optical stability of gossypolone.

AU Dao Vi-Thuy; Dowd Michael K; Martin Marie-Therese; Gaspard Christiane;  
Mayer Michel; Michelot Robert J  
CS Institut Curie, section recherche, transduction du signal et ontogenese  
U528 INSERM, 75248 Paris, France.  
SO European journal of medicinal chemistry, (2004 Jul) Vol. 39, No. 7, pp.  
619-24.  
Journal code: 0420510. ISSN: 0223-5234.  
CY France  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200502  
ED Entered STN: 20040707  
Last Updated on STN: 20050224  
Entered Medline: 20050223

L1 ANSWER 3 OF 19 MEDLINE on STN

Full Text  
Citing References

AN 2003154135 MEDLINE  
DN PubMed ID: 12670651  
TI New thioderivatives of gossypol and **gossypolone**, as prodrugs of  
cytotoxic agents.  
AU Dao Vi-Thuy; Dowd Michael K; Gaspard Christiane; Martin Marie-Therese;  
Hemez Julie; Laprevote Olivier; Mayer Michel; Michelot Robert J  
CS Institut de Chimie des Substances Naturelles, CNRS, 91198 Gif sur Yvette,  
France.  
SO Bioorganic & medicinal chemistry, (2003 May 1) Vol. 11, No. 9, pp. 2001-6.  
Journal code: 9413298. ISSN: 0968-0896.  
CY England: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200312  
ED Entered STN: 20030403  
Last Updated on STN: 20031217  
Entered Medline: 20031212

L1 ANSWER 4 OF 19 MEDLINE on STN

Full Text  
Citing References

AN 2002500426 MEDLINE  
DN PubMed ID: 12361745  
TI High-performance liquid chromatographic determination of gossypol and  
**gossypolone** enantiomers in fish tissues using simultaneous  
electrochemical and ultraviolet detectors.  
AU Lee Kyeong-Jun; Dabrowski Konrad  
CS School of Natural Resources, The Ohio State University, Columbus, OH  
43210, USA.  
SO Journal of chromatography. B, Analytical technologies in the biomedical  
and life sciences, (2002 Nov 5) Vol. 779, No. 2, pp. 313-9.  
Journal code: 101139554. ISSN: 1570-0232.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200304  
ED Entered STN: 20021004  
Last Updated on STN: 20030416  
Entered Medline: 20030411

L1 ANSWER 5 OF 19 MEDLINE on STN

Full Text	Citing References
-----------	-------------------

AN 2002273172 MEDLINE  
 DN PubMed ID: 11982441  
 TI Gossypol and **gossypolone** enantiomers in tissues of rainbow trout fed low and high levels of dietary cottonseed meal.  
 AU Lee Kyeong-Jun; Dabrowski Konrad  
 CS School of Natural Resources, The Ohio State University, 2021 Coffey Road, Columbus, Ohio 43210, USA.  
 SO Journal of agricultural and food chemistry, (2002 May 8) Vol. 50, No. 10, pp. 3056-61.  
 Journal code: 0374755. ISSN: 0021-8561.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 200206  
 ED Entered STN: 20020517  
 Last Updated on STN: 20020618  
 Entered Medline: 20020617

L1 ANSWER 6 OF 19 MEDLINE on STN

Full Text	Citing References
-----------	-------------------

AN 2002046549 MEDLINE  
 DN PubMed ID: 11598106  
 TI Reversible inhibition of calcineurin by the polyphenolic aldehyde gossypol.  
 AU Baumgrass R; Weiwad M; Erdmann F; Liu J O; Wunderlich D; Grabley S; Fischer G  
 CS Max Planck Research Unit for Enzymology of Protein Folding, Weinbergweg 22, Halle/Saale D-06120, Germany.  
 SO The Journal of biological chemistry, (2001 Dec 21) Vol. 276, No. 51, pp. 47914-21. Electronic Publication: 2001-10-11.  
 Journal code: 2985121R. ISSN: 0021-9258.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 200201  
 ED Entered STN: 20020124  
 Last Updated on STN: 20030105  
 Entered Medline: 20020131

L1 ANSWER 7 OF 19 MEDLINE on STN

Full Text	Citing References
-----------	-------------------

AN 2001088979 MEDLINE  
 DN PubMed ID: 11087445  
 TI Production, characterization, and application of anti-gossypol polyclonal antibodies.  
 AU Wang X; Plhak L C  
 CS Department of Food Science, Louisiana Agricultural Experiment Station, Louisiana State University Agricultural Center, Baton Rouge, Louisiana 70803, USA.  
 SO Journal of agricultural and food chemistry, (2000 Nov) Vol. 48, No. 11, pp. 5109-16.  
 Journal code: 0374755. ISSN: 0021-8561.

CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 200101  
 ED Entered STN: 20010322  
 Last Updated on STN: 20010322  
 Entered Medline: 20010112

L1 ANSWER 8 OF 19 MEDLINE on STN

Full Text	Citing References
--------------	----------------------

AN 2001026729 MEDLINE  
 DN PubMed ID: 11006482  
 TI Synthesis and cytotoxicity of gossypol related compounds.  
 AU Dao V T; Gaspard C; Mayer M; Werner G H; Nguyen S N; Michelot R J  
 CS Institut de chimie des substances naturelles, CNRS, 91198, Gif sur Yvette, France.  
 SO European journal of medicinal chemistry, (2000 Sep) Vol. 35, No. 9, pp. 805-13.  
 Journal code: 0420510. ISSN: 0223-5234.  
 CY France  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 200011  
 ED Entered STN: 20010322  
 Last Updated on STN: 20010322  
 Entered Medline: 20001114

L1 ANSWER 9 OF 19 MEDLINE on STN

Full Text	Citing References
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AN 2000469713 MEDLINE  
 DN PubMed ID: 10831280  
 TI Structure-activity studies on gossypol in tumor cell lines.  
 AU Shelley M D; Hartley L; Groundwater P W; Fish R G  
 CS Research Laboratories, Velindre NHS Trust, Whitchurch, Cardiff, UK..  
mike.shelley@velindre.tr.wales.nhs.uk  
 SO Anti-cancer drugs, (2000 Mar) Vol. 11, No. 3, pp. 209-16.  
 Journal code: 9100823. ISSN: 0959-4973.  
 CY ENGLAND: United Kingdom  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 200010  
 ED Entered STN: 20001012  
 Last Updated on STN: 20001012  
 Entered Medline: 20001005

L1 ANSWER 10 OF 19 MEDLINE on STN

Full Text	Citing References
--------------	----------------------

AN 1999194090 MEDLINE  
 DN PubMed ID: 10096426  
 TI Stereo-specific cytotoxic effects of gossypol enantiomers and **gossypolone** in tumour cell lines.  
 AU Shelley M D; Hartley L; Fish R G; Groundwater P; Morgan J J; Mort D; Mason M; Evans A  
 CS Research Laboratories, Velindre NHS Trust Hospital, Whitchurch, Cardiff,

UK.

SO Cancer letters, (1999 Jan 29) Vol. 135, No. 2, pp. 171-80.  
 Journal code: 7600053. ISSN: 0304-3835.  
 CY Ireland  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 199903  
 ED Entered STN: 19990413  
 Last Updated on STN: 19990413  
 Entered Medline: 19990330

L1 ANSWER 11 OF 19 MEDLINE on STN

Full Text	Citing References
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AN 1998090917 MEDLINE  
 DN PubMed ID: 9429219  
 TI Cytotoxicity of gossypol enantiomers and its quinone metabolite  
**gossypolone** in melanoma cell lines.  
 AU Blackstaffe L; Shelley M D; Fish R G  
 CS Cancer Biology and Pharmacology Group, Velindre NHS Trust Hospital,  
 Cardiff, UK.  
 SO Melanoma research, (1997 Oct) Vol. 7, No. 5, pp. 364-72.  
 Journal code: 9109623. ISSN: 0960-8931.  
 CY ENGLAND: United Kingdom  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 199802  
 ED Entered STN: 19980217  
 Last Updated on STN: 19980217  
 Entered Medline: 19980204

L1 ANSWER 12 OF 19 MEDLINE on STN

Full Text	Citing References
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AN 96362737 MEDLINE  
 DN PubMed ID: 8729944  
 TI Developing gossypol derivatives with enhanced antitumor activity.  
 AU Liang X S; Rogers A J; Webber C L; Ormsby T J; Tiritan M E; Matlin S A;  
 Benz C C  
 CS Cancer Research Institute, University of California, San Francisco  
 94143-0218, USA.  
 NC CA46966 (NCI)  
 SO Investigational new drugs, (1995) Vol. 13, No. 3, pp. 181-6.  
 Journal code: 8309330. ISSN: 0167-6997.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 199610  
 ED Entered STN: 19961106  
 Last Updated on STN: 19970203  
 Entered Medline: 19961021

L1 ANSWER 13 OF 19 MEDLINE on STN

Full Text	Citing References
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AN 96290911 MEDLINE  
 DN PubMed ID: 8707919

TI Suppressive effect of Gossypol, **Gossypolone** and serum from Gossypol treated rats on steroidogenesis in cultured porcine granulosa cells.

AU Ohmura H

CS Department of Obstetrics and Gynecology, Nippon Medical School, Tokyo, Japan.

SO Nippon Ika Daigaku zasshi, (1996 Jun) Vol. 63, No. 3, pp. 181-9.  
Journal code: 7505726. ISSN: 0048-0444.

CY Japan

DT Journal; Article; (JOURNAL ARTICLE)

LA Japanese

FS Priority Journals

EM 199609

ED Entered STN: 19960919  
Last Updated on STN: 19960919  
Entered Medline: 19960910

L1 ANSWER 14 OF 19 MEDLINE on STN

Full Text	Citing References
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AN 95319258 MEDLINE

DN PubMed ID: 7596222

TI Antiproliferative activity of gossypol and **gossypolone** on human breast cancer cells.

AU Gilbert N E; O'Reilly J E; Chang C J; Lin Y C; Brueggemeier R W

CS Division of Medicinal Chemistry and Pharmacognosy, College of Pharmacy, Ohio State University, Columbus 43210, USA.

NC P20 CA66193-01 (NCI)  
P30 CA16058-17 (NCI)

SO Life sciences, (1995) Vol. 57, No. 1, pp. 61-7.  
Journal code: 0375521. ISSN: 0024-3205.

CY ENGLAND: United Kingdom

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 199508

ED Entered STN: 19950817  
Last Updated on STN: 19970203  
Entered Medline: 19950803

L1 ANSWER 15 OF 19 MEDLINE on STN

Full Text	Citing References
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AN 92342861 MEDLINE

DN PubMed ID: 1636054

TI Characteristics of covalent gossypol binding to microsomal proteins.

AU Moh P P; Li P K; Darby M V; Brueggemeier R W; Lin Y C

CS Department of Veterinary Physiology and Pharmacology, College of Veterinary Medicine, Ohio State University, Columbus 43210-1092.

NC FD-U-354 (FDA)

SO Research communications in chemical pathology and pharmacology, (1992 Jun) Vol. 76, No. 3, pp. 305-22.  
Journal code: 0244734. ISSN: 0034-5164.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 199208

ED Entered STN: 19920911  
Last Updated on STN: 19920911  
Entered Medline: 19920826

L1 ANSWER 16 OF 19 MEDLINE on STN

Full Text	Citing References
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AN 91291708 MEDLINE  
 DN PubMed ID: 2064986  
 TI **Gossypolone** suppresses progesterone synthesis in bovine luteal cells.  
 AU Gu Y; Li P K; Lin Y C; Rikihisa Y; Brueggemeier R W  
 CS Department of Veterinary Physiology and Pharmacology, College of  
 Veterinary Medicine, Ohio State University, Columbus 43210-1092.  
 NC FD-U-354 (FDA)  
 SO The Journal of steroid biochemistry and molecular biology, (1991 Jun) Vol.  
 38, No. 6, pp. 709-15.  
 Journal code: 9015483. ISSN: 0960-0760.  
 CY ENGLAND: United Kingdom  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 199108  
 ED Entered STN: 19910901  
 Last Updated on STN: 19970203  
 Entered Medline: 19910813

L1 ANSWER 17 OF 19 MEDLINE on STN

Full Text	Citing References
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AN 91271649 MEDLINE  
 DN PubMed ID: 1647048  
 TI Suppression of adrenocorticotrophic hormone (ACTH)-induced corticosterone  
 secretion in cultured rat adrenocortical cells by gossypol and  
**gossypolone**.  
 AU Gu Y; Lin Y C  
 CS Department of Veterinary Physiology and Pharmacology, College of  
 Veterinary Medicine, Ohio State University, Columbus 43210-1092.  
 SO Research communications in chemical pathology and pharmacology, (1991 Apr)  
 Vol. 72, No. 1, pp. 27-38.  
 Journal code: 0244734. ISSN: 0034-5164.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 199107  
 ED Entered STN: 19910811  
 Last Updated on STN: 19910811  
 Entered Medline: 19910723

L1 ANSWER 18 OF 19 MEDLINE on STN

Full Text	Citing References
--------------	----------------------

AN 87313551 MEDLINE  
 DN PubMed ID: 3306161  
 TI Probing into the mechanism of action, metabolism and toxicity of gossypol  
 by studying its (+)- and (-)-stereoisomers.  
 AU Yu Y W  
 SO Journal of ethnopharmacology, (1987 Jun) Vol. 20, No. 1, pp. 65-78. Ref:  
 32  
 Journal code: 7903310. ISSN: 0378-8741.  
 CY Switzerland  
 DT Journal; Article; (JOURNAL ARTICLE)  
 General Review; (REVIEW)



LA English  
 FS Priority Journals  
 EM 198709  
 ED Entered STN: 19900305  
 Last Updated on STN: 19970203  
 Entered Medline: 19870930

L1 ANSWER 19 OF 19 MEDLINE on STN

FULL CHIRP  
 Text References

AN 85075634 MEDLINE  
 DN PubMed ID: 6509980  
 TI Comparative in vitro spermicidal effects of (+/-)-gossypol, (+)-gossypol, (-)-gossypol and **gossypolone**.  
 AU Kim I C; Waller D P; Marcelle G B; Cordell G A; Fong H H; Pirkle W H; Pilla L; Matlin S A  
 SO Contraception, (1984 Sep) Vol. 30, No. 3, pp. 253-9.  
 Journal code: 0234361. ISSN: 0010-7824.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 198501  
 ED Entered STN: 19900320  
 Last Updated on STN: 19970203  
 Entered Medline: 19850131

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	5.57	5.78

FILE 'REGISTRY' ENTERED AT 00:46:56 ON 04 APR 2006  
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
 PLEASE SEE "[HELP USAGETERMS](#)" FOR DETAILS.  
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 2 APR 2006 HIGHEST RN 878996-50-0  
 DICTIONARY FILE UPDATES: 2 APR 2006 HIGHEST RN 878996-50-0

New CAS Information Use Policies, enter [HELP USAGETERMS](#) for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

\*\*\*\*\*  
 \*  
 \* The CA roles and document type information have been removed from \*  
 \* the IDE default display format and the ED field has been added, \*  
 \* effective March 20, 2005. A new display format, IDERL, is now \*  
 \* available and contains the CA role and document type information. \*  
 \*  
 \*\*\*\*\*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> e gossypolone/cn

```
E1      1      GOSSYPOL-SORBIC ACID MIXT./CN
E2      1      GOSSYPOLOL/CN
E3      1  --> GOSSYPOLONE/CN
E4      1      GOSSYPOLONE, TETRAMETHYL ETHER/CN
E5      1      GOSSYPOLONIC ACID/CN
E6      1      GOSSYPOSE/CN
E7      1      GOSSYPURPURIN/CN
E8      1      GOSSYPURPURIN, COMPD. WITH PHNH2/CN
E9      1      GOSSYRUBILONE/CN
E10     1      GOSSYTRIN/CN
E11     1      GOSSYTRINE/CN
E12     1      GOSSYVERDURIN/CN
```

=> s e3

```
L2      1      GOSSYPOLONE/CN
```

=> d

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN

RN 4547-72-2 REGISTRY

ED Entered STN: 16 Nov 1984

CN [2,2'-Binaphthalene]-8,8'-dicarboxaldehyde, 1,1',4,4'-tetrahydro-6,6',7,7'-tetrahydroxy-3,3'-dimethyl-5,5'-bis(1-methylethyl)-1,1',4,4'-tetraoxo- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN [2,2'-Binaphthalene]-8,8'-dicarboxaldehyde, 1,1',4,4'-tetrahydro-6,6',7,7'-tetrahydroxy-5,5'-diisopropyl-3,3'-dimethyl-1,1',4,4'-tetraoxo- (7CI, 8CI)

OTHER NAMES:

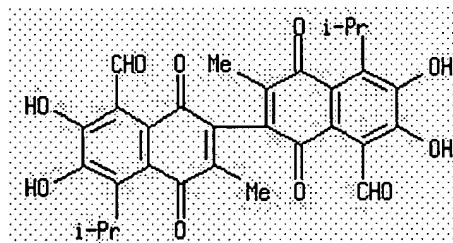
CN **Gossypolone**

CN NSC 651924

MF C30 H26 O10

CI COM

LC STN Files: AGRICOLA, BEILSTEIN\*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CSCHEM, DDFU, DRUGU, IPA, MEDLINE, NAPRALERT, RTECS\*, TOXCENTER, USPATFULL  
(\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

41 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 41 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file uspatall

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	7.10	12.88

FILE 'USPATFULL' ENTERED AT 00:47:28 ON 04 APR 2006  
 CA INDEXING COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 00:47:28 ON 04 APR 2006  
 CA INDEXING COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

=> d his

(FILE 'HOME' ENTERED AT 00:43:08 ON 04 APR 2006)

FILE 'MEDLINE' ENTERED AT 00:43:20 ON 04 APR 2006  
 L1 19 S GOSSYPOLONE

FILE 'REGISTRY' ENTERED AT 00:46:56 ON 04 APR 2006  
 E GOSSYPOLONE/CN  
 L2 1 S E3

FILE 'USPATFULL, USPAT2' ENTERED AT 00:47:28 ON 04 APR 2006

=> s l1

L3 4 L1

=> d 1-4

L3 ANSWER 1 OF 4 USPATFULL on STN

Full Text	Chemical References
AN 2005:49957 USPATFULL	
TI Drug delivery compositions	
IN Yang, Victor C., Ann Arbor, MI, UNITED STATES Park, Yoon Jeong, Seoul, KOREA, REPUBLIC OF Liang, Junfeng, Westfield, NJ, UNITED STATES	
PA The Regents of the University of Michigan, Ann Arbor, MI (U.S. corporation)	
PI <u>US 2005042753</u>	A1 20050224
AI <u>US 2004-835151</u>	A1 20040429 (10)
PRAI <u>US 2003-466804P</u>	20030430 (60)
<u>US 2003-466811P</u>	20030430 (60)
DT Utility	
FS APPLICATION	
LN.CNT 6611	
INCL INCLM: 435/455.000	
INCLS: 435/069.100; 435/320.100; 435/325.000	
NCL NCLM: 435/455.000	
NCLS: 435/069.100; 435/320.100; 435/325.000	
IC [7]	
ICM A61K039-385	
ICS C12N015-85	
IPCI A61K0039-385 [ICM,7]; C12N0015-85 [ICS,7]	

IPCR A61K0047-48 [I,A]; A61K0047-48 [I,C]  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 2 OF 4 USPATFULL on STN

Full Text	Citing References
-----------	-------------------

AN 2004:274400 USPATFULL  
TI Small molecule antagonists of BCL-2 family proteins  
IN Wang, Shaomeng, Saline, MI, UNITED STATES  
Yang, Dajun, Rockville, MD, UNITED STATES  
PA The Regents of the University of Michigan, Ann Arbor, MI (U.S. corporation)  
Georgetown University, Washington, DC (U.S. corporation)  
PI US 2004214902 A1 20041028  
AI US 2003-729156 A1 20031205 (10)  
RLI Continuation-in-part of Ser. No. US 2002-158769, filed on 30 May 2002, ABANDONED Continuation-in-part of Ser. No. WO 2002-US17206, filed on 30 May 2002, PENDING  
PRAI US 2001-293983P 20010530 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 8211  
INCL INCLM: 514/700.000  
NCL NCLM: 514/700.000  
IC [7]  
ICM A61K031-11  
IPCI A61K0031-11 [ICM,7]  
IPCR A61K0031-11 [I,A]; A61K0031-11 [I,C]; A61K0045-00 [I,C]; A61K0045-06 [I,A]

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 3 OF 4 USPATFULL on STN

Full Text	Citing References
-----------	-------------------

AN 2003:11220 USPATFULL  
TI Small molecule antagonists of Bcl-2 family proteins  
IN Wang, Shaomeng, Saline, MI, UNITED STATES  
Yang, Dajun, Rockville, MD, UNITED STATES  
PA The Regents of the University of Michigan, Ann Arbor, MI (U.S. corporation)  
PI US 2003008924 A1 20030109  
AI US 2002-158769 A1 20020530 (10)  
PRAI US 2001-293983P 20010530 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 3132  
INCL INCLM: 514/700.000  
NCL NCLM: 514/700.000  
IC [7]  
ICM A61K031-11  
IPCI A61K0031-11 [ICM,7]  
IPCR A61K0031-11 [I,A]; A61K0031-11 [I,C]; A61K0045-00 [I,C]; A61K0045-06 [I,A]

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 4 OF 4 USPATFULL on STN

Full Text	Citing References
-----------	-------------------

AN 2000:117778 USPATFULL  
TI Gossypol for the treatment of cancer

IN Flack, Mary R., Kensington, MD, United States  
 Knazek, Richard, Bethesda, MD, United States  
 Reidenberg, Marcus, Scarsdale, NY, United States  
 PA The United States of America as represented by the Department of Health  
 and Human Services, Washington, DC, United States (U.S. government)  
 PI US 6114397 20000905  
 AI US 1995-379872 19950127 (8)  
 RLI Division of Ser. No. US 1990-551353, filed on 12 Jul 1990, now patented,  
 Pat. No. US 5385936  
 DT Utility  
 FS Granted  
 LN.CNT 437  
 INCL INCLM: 514/682.000  
 INCLS: 514/700.000  
 NCL NCLM: 514/682.000  
 NCLS: 514/700.000  
 IC [7]  
 ICM A61K031-12  
 ICS A61K031-11  
 IPCI A61K0031-12 [ICM,7]; A61K0031-11 [ICS,7]  
 IPCR A61K0031-11 [I,A]; A61K0031-11 [I,C]; A61K0031-21 [I,C];  
 A61K0031-22 [I,A]  
 EXF 514/700; 514/682  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> s gossypolone  
 L4 4 GOSSYPOLONE

=> s gossypolone  
 L4 4 GOSSYPOLONE

=> d his

(FILE 'HOME' ENTERED AT 00:43:08 ON 04 APR 2006)

FILE 'MEDLINE' ENTERED AT 00:43:20 ON 04 APR 2006

L1 19 S GOSSYPOLONE

FILE 'REGISTRY' ENTERED AT 00:46:56 ON 04 APR 2006

E GOSSYPOLONE/CN

L2 1 S E3

FILE 'USPATFULL, USPAT2' ENTERED AT 00:47:28 ON 04 APR 2006

L3 4 S L1

L4 4 S GOSSYPOLONE

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

8.29

21.17

FILE 'REGISTRY' ENTERED AT 00:52:28 ON 04 APR 2006

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 DICTIONARY FILE UPDATES: 2 APR 2006 HIGHEST RN 878996-50-0

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 \*  
 \* The CA roles and document type information have been removed from \*  
 \* the IDE default display format and the ED field has been added, \*  
 \* effective March 20, 2005. A new display format, IDERL, is now \*  
 \* available and contains the CA role and document type information. \*  
 \*  
 \*\*\*\*\*

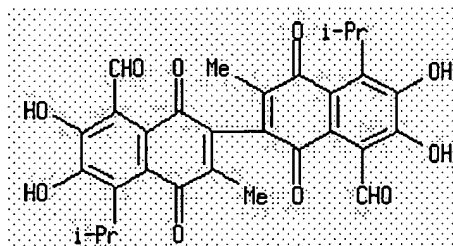
Structure search iteration limits have been increased. See HELP SLIMITS  
 for details.

REGISTRY includes numerically searchable data for experimental and  
 predicted properties as well as tags indicating availability of  
 experimental property data in the original document. For information  
 on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> d 12

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 4547-72-2 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN [2,2'-Binaphthalene]-8,8'-dicarboxaldehyde, 1,1',4,4'-tetrahydro-6,6',7,7'-  
 tetrahydroxy-3,3'-dimethyl-5,5'-bis(1-methylethyl)-1,1',4,4'-tetraoxo-  
 (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN [2,2'-Binaphthalene]-8,8'-dicarboxaldehyde, 1,1',4,4'-tetrahydro-6,6',7,7'-  
 tetrahydroxy-5,5'-diisopropyl-3,3'-dimethyl-1,1',4,4'-tetraoxo- (7CI, 8CI)  
 OTHER NAMES:  
 CN **Gossypolone**  
 CN NSC 651924  
 MF C30 H26 O10  
 CI COM  
 LC STN Files: AGRICOLA, BEILSTEIN\*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT,  
 CHEMCATS, CSChem, DDFU, DRUGU, IPA, MEDLINE, NAPRALERT, RTECS\*,  
 TOXCENTER, USPATFULL  
 (\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

41 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 41 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file ca

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	3.22	24.39

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FILE COVERS 1907 - 30 Mar 2006 VOL 144 ISS 15  
 FILE LAST UPDATED: 30 Mar 2006 (20060330/ED)

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=> s gossypolone/ab.bi

'AB.BI' IS NOT A VALID FIELD CODE  
 L5 0 GOSSYPOLONE/AB.BI

=> file cas

'CAS' IS AN AMBIGUOUS FILE OR CLUSTER NAME  
 CASLINK - Linked CAS files (Predefined Search Sequences)  
 CASRNS - CAS Registry Numbers Cluster  
 CA - The Chemical Abstracts File 1907-present  
 CASREACT - The Chemical Abstracts Reaction Search Service

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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.44	24.83

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FILE COVERS 1907 - 30 Mar 2006 VOL 144 ISS 15  
 FILE LAST UPDATED: 30 Mar 2006 (20060330/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s gossypolone/ab,bi
      34 GOSSYPOLONE/AB
      47 GOSSYPOLONE/BI
L6      47 GOSSYPOLONE/AB,BI
```

```
=> d 1-47
```

L6 ANSWER 1 OF 47 CA COPYRIGHT 2006 ACS on STN

Full Text	Citing References
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```
AN 143:205761 CA
TI Synthesis of gossypol atropisomers and derivatives and evaluation of their
   anti-proliferative and anti-oxidant activity
AU Dodou, Kalliopi; Anderson, Rosaleen J.; Lough, W. John; Small, David A.
   P.; Shelley, Michael D.; Groundwater, Paul W.
CS Sunderland Pharmacy School, University of Sunderland, Sunderland, SR1 3SD,
   UK
SO Bioorganic & Medicinal Chemistry (2005), 13(13), 4228-4237
   CODEN: BMECEP; ISSN: 0968-0896
PB Elsevier Ltd.
DT Journal
LA English
RE.CNT 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD
   ALL CITATIONS AVAILABLE IN THE RE FORMAT
```

L6 ANSWER 2 OF 47 CA COPYRIGHT 2006 ACS on STN

Full Text	Citing References
-----------	-------------------

```
AN 143:133556 CA
TI Preparation of gossypol derivatives and their pharmaceutical uses
IN Dao, Vi Thuy; De Gunzburg, Jean; Michelot, Robert; De Mil Christophe,
   Olivier
PA Centre National de la Recherche Scientifique CNRS, Fr.; Institut National
   de la Sante et de La Recherche Medicale INSERM
SO Fr. Demande, 28 pp.
   CODEN: FRXXBL
```



DT Patent  
LA French  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2864955	A1	20050715	FR 2004-125	20040108
	FR 2864955	B1	20060310		
	WO 2005073158	A1	20050811	WO 2005-FR22	20050106
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRAI FR 2004-125 A 20040108

OS MARPAT 143:133556

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 47 CA COPYRIGHT 2006 ACS on STN

Full Text Citing References

AN 141:388644 CA

TI Gossypol compound antagonists of Bcl-2 family proteins, and use with with other therapeutic means in the treatment of neoplastic and other diseases

IN Wang, Shaomeng; Yang, Dajun

PA The Regents of the University of Michigan, USA; Georgetown University

SO U.S. Pat. Appl. Publ., 143 pp., Cont.-in-part of U.S. Ser. No. 158,769.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004214902	A1	20041028	US 2003-729156	20031205
	WO 2002097053	A2	20021205	WO 2002-US17206	20020530
	WO 2002097053	A3	20040910		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 2003008924	A1	20030109	US 2002-158769	20020530
	WO 2005069771	A2	20050804	WO 2004-US40553	20041206
	WO 2005069771	A3	20060223		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,				

TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,  
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,  
 EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,  
 RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,  
 MR, NE, SN, TD, TG

PRAI US 2001-293983P P 20010530  
 US 2002-158769 A2 20020530  
 WO 2002-US17206 A2 20020530  
 US 2003-729156 A 20031205

L6 ANSWER 4 OF 47 CA COPYRIGHT 2006 ACS on STN

Full Citing  
 Text References

AN 141:235652 CA  
 TI Cytotoxicity of enantiomers of gossypol Schiff's bases and optical  
 stability of **gossypolone**  
 AU Dao, Vi-Thuy; Dowd, Michael K.; Martin, Marie-Therese; Gaspard,  
 Christiane; Mayer, Michel; Michelot, Robert J.  
 CS Transduction du signal et ontogenese U528, Inserm, Institut Curie, Paris,  
 75248, Fr.  
 SO European Journal of Medicinal Chemistry (2004), 39(7), 619-624  
 CODEN: EJMCA5; ISSN: 0223-5234  
 PB Elsevier Science Ltd.  
 DT Journal  
 LA English  
 RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 47 CA COPYRIGHT 2006 ACS on STN

Full Citing  
 Text References

AN 140:199481 CA  
 TI Preparation of gossypols, in particular 1,3-dithiolane and 1,3-dithiane  
 derivatives, as reduced toxicity prodrugs, and their use for treating  
 cancers  
 IN Dao, Vi Thuy; Gaspard, Christiane; Michelot, Robert  
 PA Centre National de la Recherche Scientifique CNRS, Fr.  
 SO Fr. Demande, 55 pp.  
 CODEN: FRXXBL  
 DT Patent  
 LA French  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2843751	A1	20040227	FR 2002-10407	20020820
	FR 2843751	B1	20040924		
	WO 2004018481	A2	20040304	WO 2003-FR2542	20030819
	WO 2004018481	A3	20040408		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2003290604	A1	20040311	AU 2003-290604	20030819

PRAI FR 2002-10407 A 20020820  
 WO 2003-FR2542 W 20030819

OS MARPAT 140:199481

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 6 OF 47 CA COPYRIGHT 2006 ACS on STN

Full Text	Citing References
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AN 139:285835 CA  
 TI New thioderivatives of gossypol and **gossypolone**, as prodrugs of  
 cytotoxic agents  
 AU Dao, Vi-Thuy; Dowd, Michael K.; Gaspard, Christiane; Martin,  
 Marie-Therese; Hemez, Julie; Laprevote, Olivier; Mayer, Michel; Michelot,  
 Robert J.  
 CS Institut de Chimie des Substances Naturelles, CNRS, Gif sur Yvette, 91198,  
 Fr.  
 SO Bioorganic & Medicinal Chemistry (2003), 11(9), 2001-2006  
 CODEN: BMECEP; ISSN: 0968-0896  
 PB Elsevier Science Ltd.  
 DT Journal  
 LA English  
 OS CASREACT 139:285835  
 RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 7 OF 47 CA COPYRIGHT 2006 ACS on STN

Full Text	Citing References
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AN 138:182185 CA  
 TI High-performance liquid chromatographic determination of gossypol and  
**gossypolone** enantiomers in fish tissues using simultaneous  
 electrochemical and ultraviolet detectors  
 AU Lee, Kyeong-Jun; Dabrowski, Konrad  
 CS School of Natural Resources, The Ohio State University, Columbus, OH,  
 43210, USA  
 SO Journal of Chromatography, B: Analytical Technologies in the Biomedical  
 and Life Sciences (2002), 779(2), 313-319  
 CODEN: JCBAAI; ISSN: 1570-0232  
 PB Elsevier Science B.V.  
 DT Journal  
 LA English  
 RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 8 OF 47 CA COPYRIGHT 2006 ACS on STN

Full Text	Citing References
--------------	----------------------

AN 138:19468 CA  
 TI Small molecule gossypol-related antagonists of Bcl-2 family proteins and  
 inhibit the anti-apoptotic effects of Bcl-2 family proteins in cancer  
 cells  
 IN Wang, Shaomeng; Yang, Dajun  
 PA The Regents of the University of Michigan, USA; Georgetown University  
 Medical Center  
 SO PCT Int. Appl., 96 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
<u>PI</u> <u>WO 2002097053</u>	A2	20021205	<u>WO 2002-US17206</u>	20020530
<u>WO 2002097053</u>	A3	20040910		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
<u>CA 2449245</u>	AA	20021205	<u>CA 2002-2449245</u>	20020530
<u>NZ 529792</u>	A	20031219	<u>NZ 2002-529792</u>	20020530
<u>EP 1474121</u>	A2	20041110	<u>EP 2002-734614</u>	20020530
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
<u>JP 2005515158</u>	T2	20050526	<u>JP 2003-500222</u>	20020530
<u>US 2004214902</u>	A1	20041028	<u>US 2003-729156</u>	20031205
<u>PRAI</u> <u>US 2001-293983P</u>	P	20010530		
<u>US 2002-158769</u>	A	20020530		
<u>WO 2002-US17206</u>	W	20020530		

L6 ANSWER 9 OF 47 CA COPYRIGHT 2006 ACS on STN

Full Text	Cited References
-----------	------------------

AN 137:311049 CA

TI New azo derivatives of gossypol. [Erratum to document cited in CA134:131685]

AU Baram, N. I.; Ziyaev, Kh. L.; Ismailov, A. I.; Ziyamov, D.; Mangutova, Yu. S.

CS A. S. Sadykov Institute of Bioorganic Chemistry, Academy of Sciences of the Republic of Uzbekistan, Tashkent, Russia

SO Chemistry of Natural Compounds (Translation of Khimiya Prirodnykh Soedinenii) (2001), Volume Date 2000, 36(5), 541-542  
CODEN: CHNCA8; ISSN: 0009-3130

PB Consultants Bureau

DT Journal

LA English

L6 ANSWER 10 OF 47 CA COPYRIGHT 2006 ACS on STN

Full Text	Cited References
-----------	------------------

AN 137:5543 CA

TI Gossypol and **Gossypolone** Enantiomers in Tissues of Rainbow Trout Fed Low and High Levels of Dietary Cottonseed Meal

AU Lee, Kyeong-Jun; Dabrowski, Konrad

CS School of Natural Resources, The Ohio State University, Columbus, OH, 43210, USA

SO Journal of Agricultural and Food Chemistry (2002), 50(10), 3056-3061  
CODEN: JAFCAU; ISSN: 0021-8561

PB American Chemical Society

DT Journal

LA English

RE.CNT 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 11 OF 47 CA COPYRIGHT 2006 ACS on STN

Full Text	Citing References
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AN 136:193770 CA  
 TI Antimitotic activity of gossypol and **gossypolone**  
 AU Badria, Farid A.; Houssein, Wael E.; Zaghloul, Mona G.; Halim, Ahmed F.  
 CS Department of Pharmacognosy, Faculty of Pharmacy, University of Mansoura, Mansoura, 35516, Egypt  
 SO Pharmaceutical Biology (Lisse, Netherlands) (2001), 39(2), 120-126  
 CODEN: PHBIFC; ISSN: 1388-0209  
 PB Swets & Zeitlinger B.V.  
 DT Journal  
 LA English  
 RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 12 OF 47 CA COPYRIGHT 2006 ACS on STN

Full Text	Citing References
-----------	-------------------

AN 136:130650 CA  
 TI Reversible inhibition of calcineurin by the polyphenolic aldehyde gossypol  
 AU Baumgrass, Ria; Weiwad, Matthias; Erdmann, Frank; Liu, Jun O.; Wunderlich, Dirk; Grabley, Susanne; Fischer, Gunter  
 CS Max Planck Research Unit for Enzymology of Protein Folding, Halle/Saale, D-06120, Germany  
 SO Journal of Biological Chemistry (2001), 276(51), 47914-47921  
 CODEN: JBCHA3; ISSN: 0021-9258  
 PB American Society for Biochemistry and Molecular Biology  
 DT Journal  
 LA English  
 RE.CNT 63 THERE ARE 63 CITED REFERENCES AVAILABLE FOR THIS RECORD  
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AN 134:131685 CA  
 TI New azo derivatives of gossypol  
 AU Baram, N. I.; Ziyaev, Kh. L.; Ismailov, A. I.; Ziyamov, D.; Mangutova, Yu. S.  
 CS A. S. Sadykov Institute of Bioorganic Chemistry, Academy of Sciences of the Republic of Uzbekistan, Tashkent, Russia  
 SO Chemistry of Natural Compounds (Translation of Khimiya Prirodnykh Soedinenii) (2000), 36(2), 185-188  
 CODEN: CHNCA8; ISSN: 0009-3130  
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 DT Journal  
 LA English  
 OS CASREACT 134:131685  
 RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD  
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AN 134:28605 CA  
 TI Production, Characterization, and Application of Anti-Gossypol Polyclonal Antibodies  
 AU Wang, Xi; Plhak, Leslie C.  
 CS Department of Food Science Louisiana Agricultural Experiment Station, Louisiana State University Agricultural Center, Baton Rouge, LA, 70803,

USA

SO Journal of Agricultural and Food Chemistry (2000), 48(11), 5109-5116  
CODEN: JAFCAU; ISSN: 0021-8561

PB American Chemical Society

DT Journal

LA English

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AN 134:5053 CA

TI Synthesis and cytotoxicity of gossypol related compounds

AU Dao, Vi-Thuy; Gaspard, Christiane; Mayer, Michel; Werner, Georges H.;  
Nguyen, Suong N.; Michelot, Robert J.

CS Institut de chimie des substances naturelles, CNRS, Gif sur Yvette, 91198,  
Fr.

SO European Journal of Medicinal Chemistry (2000), 35(9), 805-813  
CODEN: EJMCA5; ISSN: 0223-5234

PB Editions Scientifiques et Medicales Elsevier

DT Journal

LA English

OS CASREACT 134:5053

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ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 16 OF 47 CA COPYRIGHT 2006 ACS on STN

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AN 133:114600 CA

TI Structure-activity studies on gossypol in tumor cell lines

AU Shelley, Michael D.; Hartley, Laura; Groundwater, Paul W.; Fish, Reginald  
G.

CS Research Laboratories, Velindre NHS Trust, Cardiff, CF14 2TL, UK

SO Anti-Cancer Drugs (2000), 11(3), 209-216  
CODEN: ANTDEV; ISSN: 0959-4973

PB Lippincott Williams & Wilkins

DT Journal

LA English

RE.CNT 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD  
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AN 130:346843 CA

TI Stereo-specific cytotoxic effects of gossypol enantiomers and  
**gossypolone** in tumor cell lines

AU Shelley, M. D.; Hartley, L.; Fish, R. G.; Groundwater, P.; Morgan, J. J.  
G.; Mort, D.; Mason, M.; Evans, A.

CS Research Laboratories, Velindre NHS Trust Hospital, Whitchurch, Cardiff,  
CF4 7XL, UK

SO Cancer Letters (Shannon, Ireland) (1999), 135(2), 171-180  
CODEN: CALEDQ; ISSN: 0304-3835

PB Elsevier Science Ireland Ltd.

DT Journal

LA English

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ALL CITATIONS AVAILABLE IN THE RE FORMAT

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AN 130:162735 CA  
 TI Inhibition of oncogene activity as a strategy for identifying cancer chemopreventive agents: novel inhibitors of protein-tyrosine kinase  
 AU Abou-Karam, Mohamed  
 CS Department of Medicinal Chemistry, College of Pharmacy, University of Minnesota, Minneapolis, MN, 55455, USA  
 SO Alexandria Journal of Pharmaceutical Sciences (1998), 12(2), 107-109  
 CODEN: AJPSES; ISSN: 1110-1792  
 PB University of Alexandria, Faculty of Pharmacy  
 DT Journal  
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AN 128:57169 CA  
 TI Cytotoxicity of gossypol enantiomers and its quinone metabolite **gossypolone** in melanoma cell lines  
 AU Blackstaffe, L.; Shelley, M. D.; Fish, R. G.  
 CS Cancer Biology and Pharmacology Group, Research Laboratories, Velindre NHS Trust Hospital, Cardiff, CF4 7XL, UK  
 SO Melanoma Research (1997), 7(5), 364-372  
 CODEN: MREEEH; ISSN: 0960-8931  
 PB Rapid Science Publishers  
 DT Journal  
 LA English  
 RE.CNT 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD  
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AN 127:234060 CA  
 TI Deuterium isotope effects on  $^{13}\text{C}$  chemical shifts of o-hydroxyacyl aromatics. Intramolecular hydrogen bonding  
 AU Hansen, Poul Erik; Bolvig, Simon  
 CS Department of Life Sciences and Chemistry, Roskilde University, Roskilde, DK-4000, Den.  
 SO Magnetic Resonance in Chemistry (1997), 35(8), 520-528  
 CODEN: MRCHEG; ISSN: 0749-1581  
 PB Wiley  
 DT Journal  
 LA English

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AN 127:76176 CA  
 TI Effect of gossypol, apogossypol and **gossypolone** on fatty acids pattern of lipid fractions in rat serum and seminal fluid  
 AU El-Sharaky, A. S.; El-Sewedy, S. M.; El-Sayed, M. M.; El-Shahawy, I. N.  
 CS Chem. Dep., Fac. Sci., Qatar Univ., Qatar  
 SO Qatar University Science Journal (1994), 14(Spec. Issue), 68-74  
 CODEN: QUSJEV; ISSN: 1023-8948

PB University of Qatar, Faculty of Science  
 DT Journal  
 LA English

RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD  
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AN 127:76175 CA  
 TI The effect of gossypol, **gossypolone** and apogossypol on the lipids of male rat serum and seminal fluid  
 AU El-Sharaky, A. S.; El-Sewedy, S. M.; El-Sayed, M. M.; El-Shahawy, I. N.  
 CS Chem. Dep., Fac. Sci., Qatar Univ., Qatar  
 SO Qatar University Science Journal. (1994), 14(Spec. Issue), 32-38  
 CODEN: QUSJEV; ISSN: 1023-8948  
 PB University of Qatar, Faculty of Science  
 DT Journal  
 LA English

RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD  
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AN 125:105354 CA  
 TI Suppressive effect of gossypol, **gossypolone**, and serum from gossypol treated rats on steroidogenesis in cultured porcine granulosa cells  
 AU Ohmura, Hiroshi  
 CS Dep. Obstetr. Gynecol., Nippon Med. Sch., Tokyo, 113, Japan  
 SO Nippon Ika Daigaku Zasshi (1996), 63(3), 181-191  
 CODEN: NIDZAJ; ISSN: 0048-0444  
 PB Nippon Ika Daigaku Igakkai  
 DT Journal  
 LA Japanese

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AN 125:86913 CA  
 TI Molecular and crystal structure of hemigossypolone and **gossypolone**  
 AU Talipov, S. A.; Ibragimov, B. T.; Beketov, K. M.; Islambekov, Sh. Yu.; Mardanov, R. G.; Ismailov, A. I.  
 CS Inst. Bioorg. Khim. im. Sadykova, Tashkent, Uzbekistan  
 SO Khimiya Prirodnykh Soedinenii (1995), (6), 814-819  
 CODEN: KPSUAR; ISSN: 0023-1150  
 PB Fan  
 DT Journal  
 LA Russian

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AN 125:25597 CA  
 TI Development of gossypol derivatives with enhanced antitumor activity  
 AU Liang, X. S.; Rogers, A. J.; Webber, C. L.; Ormsby, T. J.; Tiritan, M. E.; Matlin, S. A.; Benz, C. C.  
 CS Cancer Research Institute, University California, San Francisco, CA, 94143-0128, USA  
 SO Investigational New Drugs (1995), 13(3), 181-186



CODEN: INNDDK; ISSN: 0167-6997

PB Kluwer  
DT Journal  
LA English

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AN 123:462 CA  
TI Antiproliferative activity of gossypol and **gossypolone** on human breast cancer cells  
AU Gilbert, Nancy E.; O'Reilly, Jill E.; Chang, C. J. George; Lin, Young C.; Brueggemeier, Robert W.  
CS Coll. Pharmacy, Ohio State Univ., Columbus, OH, 43210, USA  
SO Life Sciences (1995), 57(1), 61-7  
CODEN: LIFSAK; ISSN: 0024-3205  
PB Elsevier  
DT Journal  
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AN 122:178627 CA  
TI Effect of gossypol, apogossypol and **gossypolone** on fertility of male rats and in vitro sperm motility  
AU El-Sharaky, A. S.; El-Sewedy, S. M.; El-Sayed, M. M.; El-Shahawy, I. N.  
CS Faculty of Science, University of Qatar, Doha, Qatar  
SO Qatar University Science Journal (1993), 13(2), 214-18  
CODEN: QUSJEV; ISSN: 1023-8948  
PB University of Qatar, Faculty of Science  
DT Journal  
LA English

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AN 121:78782 CA  
TI Relationships of glands, cotton square terpenoid aldehydes, and other allelochemicals to larval growth of *Heliothis virescens* (Lepidoptera: Noctuidae)  
AU Hedin, P. A.; Parrott, W. L.; Jenkins, J. N.  
CS Crop Sci. Res. Lab., USDA-ARS, Mississippi State, MS, 39762-5367, USA  
SO Journal of Economic Entomology (1992), 85(2), 359-64  
CODEN: JEENAI; ISSN: 0022-0493  
DT Journal  
LA English

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AN 120:158807 CA  
TI Terpenoid aldehydes in root-knot nematode susceptible and resistant cottonseeds as determined by HPLC and aniline methods  
AU Khoshkhoo, Nazrin; Hedin, Paul A.; McCarty, Jack C., Jr.  
CS Department of Chemistry, Mississippi State University, Mississippi State, MS, 39762, USA  
SO Journal of Agricultural and Food Chemistry (1994), 42(3), 804-6  
CODEN: JAFCAU; ISSN: 0021-8561  
DT Journal

LA English

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AN 117:83605 CA  
 TI Characteristics of covalent gossypol binding to microsomal proteins  
 AU Moh, P. P.; Li, P. K.; Darby, M. V.; Brueggemeier, R. W.; Lin, Y. C.  
 CS Coll. Vet. Med., Ohio State Univ., Columbus, OH, 43210-1092, USA  
 SO Research Communications in Chemical Pathology and Pharmacology (1992),  
 76(3), 305-22  
 CODEN: RCOCB8; ISSN: 0034-5164  
 DT Journal  
 LA English

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AN 115:127422 CA  
 TI **Gossypolone** suppresses progesterone synthesis in bovine luteal cells  
 AU Gu, Y.; Li, P. K.; Lin, Y. C.; Rikihisa, Y.; Brueggemeier, R. W.  
 CS Coll. Vet. Med., Ohio State Univ., Columbus, OH, 43210-1092, USA  
 SO Journal of Steroid Biochemistry and Molecular Biology (1991), 38(6),  
 709-15  
 CODEN: JSBBEZ; ISSN: 0960-0760  
 DT Journal  
 LA English

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AN 115:111010 CA  
 TI Effects of cotton plant allelochemicals and nutrients on behavior and  
 development of tobacco budworm  
 AU Hedin, Paul A.; Parrott, William L.; Jenkins, Johnie N.  
 CS Crop Sci. Res. Lab., ARS, Mississippi State, MS, 39762-5367, USA  
 SO Journal of Chemical Ecology (1991), 17(6), 1107-21  
 CODEN: JCECD8; ISSN: 0098-0331  
 DT Journal  
 LA English

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AN 115:1029 CA  
 TI Suppression of adrenocorticotrophic hormone (ACTH)-induced corticosterone  
 secretion in cultured rat adrenocortical cells by gossypol and **gossypolone**  
 AU Gu, Yan; Lin, Young C.  
 CS Coll. Vet. Med., Ohio State Univ., Columbus, OH, 43210-1092, USA  
 SO Research Communications in Chemical Pathology and Pharmacology (1991),  
 72(1), 27-38  
 CODEN: RCOCB8; ISSN: 0034-5164  
 DT Journal  
 LA English

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AN 112:115124 CA  
 TI Spectral techniques for structural analysis of the cotton terpenoid

aldehydes gossypol and **gossypolone**

AU Phillips, Valeria A.; Hedin, Paul A.  
 CS Crop Sci. Res. Lab., ARS, Mississippi State, MS, 39762-5367, USA  
 SO Journal of Agricultural and Food Chemistry (1990), 38(2), 525-8  
 CODEN: JAFCAU; ISSN: 0021-8561  
 DT Journal  
 LA English  
 OS CASREACT 112:115124

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AN 111:7627 CA  
 TI Photochemical conversion of 7-methoxyhemigossypolone to the lactone of 2,5,8-trihydroxy-4-isopropyl-3-methoxy-6-methylnaphth-1-oic acid  
 AU Mahoney, Noreen E.; Chan, Bock G.  
 CS West. Reg. Res. Cent., U. S. Dep. Agric., Albany, CA, 94710, USA  
 SO Journal of Natural Products (1988), 51(2), 374-5  
 CODEN: JNPRDF; ISSN: 0163-3864  
 DT Journal  
 LA English  
 OS CASREACT 111:7627

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AN 102:17834 CA  
 TI Comparative in vitro spermicidal effects of (±)-gossypol, (+)-gossypol, (-)-gossypol and **gossypolone**  
 AU Kim, I. C.; Waller, D. P.; Marcelle, G. B.; Cordell, G. A.; Fong, H. H. S.; Pirkle, W. H.; Pilla, L.; Matlin, S. A.  
 CS Coll. Pharm., Univ. Illinois, Chicago, IL, 60612, USA  
 SO Contraception (1984), 30(3), 253-9  
 CODEN: CCPTAY; ISSN: 0010-7824  
 DT Journal  
 LA English

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AN 101:90319 CA  
 TI HPLC, mass spectrometry, and LC/MS of gossypol and its derivatives  
 AU Martin, S. A.; Zhou, R. H.; Games, D. E.; Jones, A.; Ramsey, E. D.  
 CS Chem. Dep., City Univ., London, EC1V 0HB, UK  
 SO HRC & CC, Journal of High Resolution Chromatography and Chromatography Communications (1984), 7(4), 196-202  
 CODEN: HCJCDB; ISSN: 0344-7138  
 DT Journal  
 LA English

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AN 92:140463 CA  
 TI Determination of the cytotoxic effect and antitumor activity of gossypol and some of its derivatives  
 AU Kuznetsova, N. N.; Nuridzhanyants, S. S.; Leont'ev, V. B.; Baram, N. I.; Paizieva, R. Z.; Ismailov, A. I.  
 CS USSR  
 SO Deposited Doc. (1979), VINITI 409-79, 7 pp. Avail.: VINITI

DT Report  
LA Russian

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AN 88:115758 CA  
TI Study of **gossypolone** and some of its derivatives  
AU Paizieva, R. Z.; Baram, N. I.; Sagdieva, M. G.; Ismailov, A. I.  
CS Otd. Bioorg. Khim., Tashkent, USSR  
SO Khimiya Prirodnikh Soedinenii (1977), (6), 858-9  
CODEN: KPSUAR; ISSN: 0023-1150  
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LA Russian

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AN 83:1884 CA  
TI Metabolic fate of gossypol. Metabolism of carbon-14-labeled gossypol in swine  
AU Abou-Donia, Mohamed B.; Dieckert, Julius W.  
CS Dep. Biochem. Biophys., Texas A and M Univ., College Station, TX, USA  
SO Toxicology and Applied Pharmacology (1975), 31(1), 32-46  
CODEN: TXAPA9; ISSN: 0041-008X  
DT Journal  
LA English

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AN 64:19022 CA  
OREF 64:3437d-e  
TI Oxidation of gossypol. II. Formation of **gossypolone** with ferric chloride  
AU Haas, Roswitha H.; Shirley, David A.  
CS Univ. of Tennessee, Knoxville  
SO Journal of Organic Chemistry (1965), 30(12), 4111-13  
CODEN: JOCEAH; ISSN: 0022-3263  
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AN 33:54208 CA  
OREF 33:7807h-i, 7808a-c  
TI Structure of gossypol. XXII. Gossypol ethers and their reduction products  
AU Adams, Roger; Dial, W. R.  
SO Journal of the American Chemical Society (1939), 61, 2077-82  
CODEN: JACSAT; ISSN: 0002-7863  
DT Journal  
LA Unavailable

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AN 33:8729 CA  
OREF 33:1323g-i  
TI Structure of gossypol. XVII. Nitration products of gossypol hexamethyl ether, **gossypolone** tetramethyl ether and gossypolonic acid tetramethyl

ether

AU Adams, Roger; Geissman, T. A.; Morris, R. C.  
 SO Journal of the American Chemical Society (1938), 60, 2970-2  
 CODEN: JACSAT; ISSN: 0002-7863  
 DT Journal  
 LA Unavailable

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AN 33:8728 CA  
 OREF 33:1323b-g  
 TI Structure of gossypol. XVI. Reduction products of **gossypolone**  
 tetramethyl ether and gossypolonic acid tetramethyl ether  
 AU Adams, Roger; Geissman, T. A.; Morris, R. C.  
 SO Journal of the American Chemical Society (1938), 60, 2967-70  
 CODEN: JACSAT; ISSN: 0002-7863  
 DT Journal  
 LA Unavailable

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AN 32:59950 CA  
 OREF 32:8405a-e  
 TI Structure of gossypol. IX. Oxidation and degradation of gossypol  
 hexamethyl ether; gossic acid  
 AU Adams, Roger; Morris, R. C.; Kirkpatrick, E. C.  
 SO Journal of the American Chemical Society (1938), 60, 2170-4  
 CODEN: JACSAT; ISSN: 0002-7863  
 DT Journal  
 LA Unavailable

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AN 23:24927 CA  
 OREF 23:2944h-i  
 TI Gossypol. V. Action of chromic acid upon some gossypol derivatives  
 AU Clark, E. P.  
 CS U. S. Dept. Agr.  
 SO Journal of the American Chemical Society (1929), 51, 1475-8  
 CODEN: JACSAT; ISSN: 0002-7863  
 DT Journal  
 LA Unavailable

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AN 23:24926 CA  
 OREF 23:2944f-h  
 TI Artificial humification of carbohydrates, particularly the conversion of  
 cellulose into humic acids  
 AU Fuchs, W.  
 SO Brennstoff-Chemie (1928), 9, 400-2  
 CODEN: BRCHAR; ISSN: 0006-9620  
 DT Journal  
 LA Unavailable

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L6 ANSWER 33 OF 47 CA COPYRIGHT 2006 ACS on STN

Full Text	Citing References
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AN 115:1029 CA

TI Suppression of adrenocorticotrophic hormone (ACTH)-induced corticosterone secretion in cultured rat adrenocortical cells by gossypol and **gossypolone**

SO Research Communications in Chemical Pathology and Pharmacology (1991), 72(1), 27-38  
CODEN: RCOCB8; ISSN: 0034-5164

TI Suppression of adrenocorticotrophic hormone (ACTH)-induced corticosterone secretion in cultured rat adrenocortical cells by gossypol and **gossypolone**

AB The effects of gossypol and **gossypolone** on steroidogenesis were examd. in adrenocortical cells of young rats. ACTH-induced corticosterone secretion and intracellular cAMP formation were inhibited by gossypol at concns. of 8.6 and 4.3  $\mu$ M, resp., and by **gossypolone** at concns. of 8.6 and 4.3  $\mu$ M, resp. Thus both compds. inhibit ACTH-induced corticosterone synthesis and secretion in rat adrenocortical. . .

ST ACTH corticosterone gossypol **gossypolone**

IT Adrenal cortex, metabolism  
(corticosterone secretion by culture of, gossypol and **gossypolone** suppression of ACTH-induced)

IT Corticosteroids, biological studies  
RL: FORM (Formation, nonpreparative)  
(formation of, gossypol and **gossypolone** effect on)

IT 303-45-7, Gossypol 4547-72-2, Gossypolone  
RL: BIOL (Biological study)  
(ACTH induction of corticosterones secretion by adrenocortical culture suppression by)

IT 9002-60-2, ACTH, biological studies  
RL: BIOL (Biological study)  
(corticosterone secretion by adrenocortical culture stimulation by, gossypol and **gossypolone** suppression of)

IT 60-92-4  
RL: BIOL (Biological study)  
(gossypol and **gossypolone** effect on ACTH-induced corticosterone secretion mediation by)

IT 50-22-6, Corticosterone  
RL: BIOL (Biological study)  
(secretion of, ACTH induction of, in adrenocortical culture, gossypol and **gossypolone** suppression of)

L6 ANSWER 38 OF 47 CA COPYRIGHT 2006 ACS on STN

Full Text	Citing References
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AN 92:140463 CA

TI Determination of the cytotoxic effect and antitumor activity of gossypol and some of its derivatives

SO Deposited Doc. (1979), VINITI 409-79, 7 pp. Avail.: VINITI

AB Gossypol (I) [303-45-7], **gossypolone** [4547-72-2], and megosin [72432-85-0] showed inhibitory activity against human pancreatic carcinoma in vitro. Concns. of the compds. which caused 50%. . . content were 20.0-31.0  $\mu$ g/mL. A 50% decrease in protein content was obsd. at 42.0, 43.0, and 62.0  $\mu$ g/mL for I, **gossypolone**, and megosin, resp.

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(FILE 'HOME' ENTERED AT 00:43:08 ON 04 APR 2006)

FILE 'MEDLINE' ENTERED AT 00:43:20 ON 04 APR 2006

L1 19 SEA GOSSYPOLONE  
D 1-19

FILE 'REGISTRY' ENTERED AT 00:46:56 ON 04 APR 2006

L2 E GOSSYPOLONE/CN  
1 SEA GOSSYPOLONE/CN  
D

FILE 'USPATFULL, USPAT2' ENTERED AT 00:47:28 ON 04 APR 2006

L3 4 SEA L1  
D 1-4  
L4 4 SEA GOSSYPOLONE

FILE 'REGISTRY' ENTERED AT 00:52:28 ON 04 APR 2006

D L2

FILE 'CA' ENTERED AT 00:54:10 ON 04 APR 2006

L5 0 SEA GOSSYPOLONE/AB.BI

FILE 'CA' ENTERED AT 00:54:57 ON 04 APR 2006

L6 47 SEA GOSSYPOLONE/AB, BI  
D 1-47  
D AN TI SO KWIC 33 38

FILE HOME

FILE MEDLINE

FILE LAST UPDATED: 1 APR 2006 (20060401/UP). FILE COVERS 1950 TO DATE.

On December 11, 2005, the 2006 MeSH terms were loaded.

The MEDLINE reload for 2006 is now (26 Feb.) available. For details on the 2006 reload, enter HELP RLOAD at an arrow prompt (=>).

See also:

<http://www.nlm.nih.gov/mesh/>

[http://www.nlm.nih.gov/pubs/techbull/nd04/nd04\\_mesh.html](http://www.nlm.nih.gov/pubs/techbull/nd04/nd04_mesh.html)

[http://www.nlm.nih.gov/pubs/techbull/nd05/nd05\\_med\\_data\\_changes.html](http://www.nlm.nih.gov/pubs/techbull/nd05/nd05_med_data_changes.html)

[http://www.nlm.nih.gov/pubs/techbull/nd05/nd05\\_2006\\_MeSH.html](http://www.nlm.nih.gov/pubs/techbull/nd05/nd05_2006_MeSH.html)

OLDMEDLINE is covered back to 1950.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2006 vocabulary.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 2 APR 2006 HIGHEST RN 878996-50-0

DICTIONARY FILE UPDATES: 2 APR 2006 HIGHEST RN 878996-50-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

```
*****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*
*****
```

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

#### FILE USPATFULL

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 30 Mar 2006 (20060330/PD)  
 FILE LAST UPDATED: 30 Mar 2006 (20060330/ED)  
 HIGHEST GRANTED PATENT NUMBER: US7020895  
 HIGHEST APPLICATION PUBLICATION NUMBER: US2006070159  
 CA INDEXING IS CURRENT THROUGH 28 Mar 2006 (20060328/UPCA)  
 ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 30 Mar 2006 (20060330/PD)  
 REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2006  
 USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2006

#### FILE USPAT2

FILE COVERS 2001 TO PUBLICATION DATE: 30 Mar 2006 (20060330/PD)  
 FILE LAST UPDATED: 30 Mar 2006 (20060330/ED)  
 HIGHEST GRANTED PATENT NUMBER: US2005250683  
 HIGHEST APPLICATION PUBLICATION NUMBER: US2006069784  
 CA INDEXING IS CURRENT THROUGH 30 Mar 2006 (20060330/UPCA)  
 ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 30 Mar 2006 (20060330/PD)  
 REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2006  
 USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2006

#### FILE CA

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FILE COVERS 1907 - 30 Mar 2006 VOL 144 ISS 15  
FILE LAST UPDATED: 30 Mar 2006 (20060330/ED)

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